

## ABSTRACT OF THE DISCLOSURE

Systems and methods are described for a circuit interconnect model compiler. A method includes providing extraction data from an interconnect; reading a dataset from said extraction data from said interconnect; reducing said dataset to form a model; evaluating said model for a set of conditions to obtain a solution; and writing said solution to an application. The systems and methods provide advantages in that the speed, reliability and accuracy of the design process are improved and the affect of circuit interconnects is taken into account.